

Title (en)

HIGH-DEFINITION MAP CREATION METHOD AND DEVICE, AND ELECTRONIC DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG EINER HOCHAUFLÖSENDEN KARTE UND ELEKTRONISCHE VORRICHTUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE CRÉATION DE CARTE À HAUTE DÉFINITION, ET DISPOSITIF ÉLECTRONIQUE

Publication

**EP 4116935 A2 20230111 (EN)**

Application

**EP 22202930 A 20221021**

Priority

CN 202111260229 A 20211028

Abstract (en)

A high-definition map creation method includes: obtaining point cloud data collected with respect to a target region, the point cloud data including K frames of point clouds and an initial pose of each frame of point cloud, K being an integer greater than 1; associating the K frames of point clouds with each other in accordance with the initial pose to obtain a first point cloud relation graph of the K frames of point clouds; performing point cloud registration on the K frames of point clouds in accordance with the first point cloud relation graph and the initial pose to obtain a target relative pose of each frame of point cloud in the K frames of point clouds; and splicing the K frames of point clouds in accordance with the target relative pose to obtain a point cloud map of the target region.

IPC 8 full level

**G06T 17/05** (2011.01); **G06T 3/00** (2006.01); **G06T 7/77** (2017.01)

CPC (source: CN EP KR US)

**G01S 17/89** (2013.01 - US); **G06T 7/11** (2017.01 - US); **G06T 7/32** (2017.01 - US); **G06T 7/70** (2017.01 - KR US); **G06T 7/77** (2017.01 - EP); **G06T 17/05** (2013.01 - CN EP KR); **B60W 60/001** (2020.02 - US); **B60W 2556/40** (2020.02 - US); **G06T 2207/10028** (2013.01 - EP KR US); **G06T 2207/20021** (2013.01 - US); **G06T 2207/20072** (2013.01 - EP); **G06T 2207/20221** (2013.01 - EP); **G06T 2207/30241** (2013.01 - US); **G06T 2207/30252** (2013.01 - US); **G06T 2210/56** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 22202930 A 20221021**; CN 202111260229 A 20211028; JP 2022171511 A 20221026; KR 20220137344 A 20221024; US 202217970285 A 20221020